

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
ALEXANDER COUNTY --- THEBES [37.22, -89.47], 0.6 WSW THEBES JCT [37.20, -89.46], 0.5 WNW THEBES JCT [37.20, -89.46], 0.4 ESE THEBES [37.22, -89.46]				
	08/01/10 00:00 CST		0	Flood (due to Heavy Rain)
	08/05/10 17:00 CST		1K	Source: River/Stream Gage
Minor flooding of the Mississippi River persisted from July into early August. Some fields in low-lying bottomlands were submerged.				
Persistent wet weather across the Upper Mississippi Valley sent several small crests down the river, keeping the river above flood stage at Thebes.				
(IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	08/03/10 00:00 CST		0	Drought
	08/31/10 23:59 CST		0	
Moderate drought conditions developed over extreme southern Illinois, along the Ohio River. Rainfall for the months of June, July and August was variable, consisting of isolated to widely scattered showers and thunderstorms. Many locations were one to over three inches below normal for the month of August. Hot conditions increased evaporation rates and crop stress. A farmer in Pulaski County stated that drought had led to problems with the quality of the corn grown in his area. The ears were smaller and not filled out to the tip, and the test weight was lower than usual. Aflatoxin, produced by mold fungi during drought, led to some farmers' corn being rejected at the elevator. An upper level ridge of high pressure remained firmly entrenched over the southern states during most of the month.				
(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	08/03/10 10:00 CST		0	Excessive Heat
	08/04/10 20:00 CST	2	0	
Excessively high heat indices were recorded in the late morning and afternoon hours of both the 3rd and 4th. On the 3rd, the heat index peaked at 118 degrees at the Carbondale airport. Similar values were measured elsewhere in southern Illinois. Heat indices only fell into the mid 80's at sunrise. On the 4th, the heat index peaked at 112 at Carbondale. The actual air temperature reached 104 degrees at Carbondale. In the Shawnee National Forest, two hikers were overtaken by the heat. The dehydrated hikers were taken by ambulance to a local hospital, where they were treated and released. A large, strong high in the upper levels of the atmosphere overspread the southern half of the nation.				
(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	08/09/10 10:00 CST		0	Excessive Heat
	08/15/10 20:00 CST	10	0	
A strong and very persistent high in the upper levels of the atmosphere was responsible for seven consecutive days of heat indices at or above 105 degrees. The high was centered over the Lower Ohio Valley for the first few days of the heat wave, then it shifted slightly southward and weakened. The summer as a whole was among the hottest on record. The heat index peaked mainly between 105 and 111 degrees at the Marion and Carbondale airport sites during each afternoon of the event. Similar values were observed elsewhere. Heat indices during the early morning hours were mostly in the mid to upper 80's. Hospitals reported that cases of heat exhaustion were quite low. Seven heat-related illnesses were treated at a Mount Vernon hospital. Only a few cases were reported in the Harrisburg area. Heat illness information was not available from other hospitals.				
JEFFERSON COUNTY --- OPDYKE [38.25, -88.78]				
	08/12/10 09:55 CST		40K	Thunderstorm Wind (EG 61 kt)
	08/12/10 09:55 CST		0	Source: Newspaper
Siding was pulled off homes and a boat was thrown into a woodpile. Trees were blown over, including a large oak tree. Vinyl fencing was blown across a yard. Tree limbs were down on roads.				
HAMILTON COUNTY --- DAHLGREN [38.20, -88.68]				
	08/12/10 10:25 CST		80K	Thunderstorm Wind (EG 52 kt)
	08/12/10 10:25 CST		0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Numerous large tree limbs four inches or more in diameter were blown down throughout the village. Several large mature trees were down. Utility crews estimated twenty trees were down. One garage was slightly damaged by a falling tree. Illinois Highway 142 was blocked for a short time due to a fallen tree.				

FRANKLIN COUNTY --- SESSER [38.10, -89.05], EWING [38.08, -88.85]				
	08/12/10 11:12 CST		50K	Thunderstorm Wind (EG 52 kt)
	08/12/10 11:20 CST		0	Source: Emergency Manager

Trees and power lines were down at both Sesser and Ewing.

PERRY COUNTY --- DU QUOIN [38.02, -89.23], 0.8 N CLINCH [37.98, -89.23]				
	08/12/10 11:20 CST		15K	Thunderstorm Wind (EG 61 kt)
	08/12/10 11:25 CST		0	Source: Newspaper

A construction trailer was overturned at the Du Quoin State Fairgrounds. A large tree limb was blown down across a house in Du Quoin.

FRANKLIN COUNTY --- MULKEYTOWN [37.97, -89.12], BENTON [38.00, -88.92]				
	08/12/10 11:28 CST		40K	Thunderstorm Wind (EG 61 kt)
	08/12/10 11:40 CST		0	Source: Trained Spotter

Trees were blown down in Mulkeytown. In Benton, a large tree fell on an apartment building. Moderate damage occurred to the roof and upper parts of a wall. A very large tree was blown down in Christopher.

WHITE COUNTY --- 1.0 NW CARMi [38.09, -88.18], 3.0 E NORRIS CITY [37.98, -88.26]				
	08/12/10 11:35 CST		20K	Thunderstorm Wind (EG 52 kt)
	08/12/10 11:35 CST		0	Source: Newspaper

Utility crews repaired power lines damaged by falling tree limbs. Numerous tree limbs were blown down on the northwest side of Carmi. A few miles east of Norris City, three large trees were blown down in a front yard. Two of the trees were pine trees, and the other was a maple. All three trees were over 40 feet tall. A trampoline was blown over across the street.

Pockets of wind damage were produced by thunderstorms that formed in a hot and very unstable air mass. The atmosphere was characterized by a weak flow regime resulting from persistent ridging in the mid and upper levels.

FRANKLIN COUNTY --- CHRISTOPHER [37.97, -89.05]				
	08/15/10 01:30 CST		25K	Thunderstorm Wind (EG 52 kt)
	08/15/10 01:30 CST		0	Source: Newspaper

Large trees were blown down. Some tree limbs landed on power lines and roads. A portion of a fence was blown out.

Clusters of strong thunderstorms moved southeast across southern Illinois. A cluster briefly evolved into a bowing line of storms that produced isolated damaging winds. The storms occurred ahead of a cold front as it moved east across eastern Missouri and into western Illinois.

INDIANA, Southwest

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER				
	08/03/10 12:00 CST		0	Excessive Heat
	08/04/10 20:00 CST	10	0	

Excessively high heat indices were recorded in the late morning and afternoon hours of both the 3rd and 4th. On the 3rd, the heat index peaked near 115 degrees at the Evansville airport. Similar values were measured elsewhere in southwest Indiana. Heat indices only fell into the mid 80's at sunrise. On the 4th, heat indices peaked at 110 at Evansville. Actual air temperatures reached 102 degrees at Evansville on the 4th. Ten persons were treated for heat-related illnesses at an Evansville hospital. The heat was blamed for the deaths of two dogs at two separate residences in Evansville. Police found both dogs outdoors with no water. A large, strong high in the upper levels of the atmosphere overspread the southern half of the nation.

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER				
	08/09/10 10:00 CST		0	Excessive Heat
	08/15/10 20:00 CST		0	

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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A strong and very persistent high in the upper levels of the atmosphere was responsible for seven consecutive days of heat indices at or above 105 degrees. The high was centered over the Lower Ohio Valley for the first few days of the heat wave, then it shifted slightly southward and weakened. The summer as a whole was among the hottest on record. The heat index peaked between 105 and 110 degrees at the Evansville airport during each afternoon of the event. Similar values were observed elsewhere. Heat indices during the early morning hours were mostly in the mid to upper 80's.

VANDERBURGH COUNTY --- EVANSVILLE [37.98, -87.55]

08/12/10 12:59 CST	0	Dust Devil
08/12/10 12:59 CST	0	Source: Trained Spotter

A very well-defined dust devil was observed. The dust devil was roughly ten feet wide at the base and about 60 feet tall. It travelled around 80 feet before dissipating.

A dust devil occurred during a very hot and unstable afternoon with light winds.

KENTUCKY, Southwest

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCracken, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN

08/03/10 00:00 CST	0	Drought
08/31/10 23:59 CST	0	

Moderate drought conditions developed over much of western Kentucky. Rainfall for the months of June, July and August was variable, consisting of isolated to widely scattered showers and thunderstorms. Many locations were one to over three inches below normal for the month of August. The Office of the State Climatologist and the Kentucky Energy and Environment Cabinet designated most western KY counties a drought management area because water supplies were down. The governor of Kentucky sought a federal disaster declaration for west Kentucky due to substantial agricultural losses due to drought. Dry pastures and diminished stock ponds were problematic for livestock producers. A farmer with corn in Daviess County revealed that his corn yield was down about 30 percent from last year's yield of 160 to 170 bushels per acre. The extension agent in McLean County stated that the drought really cut into the soybean and corn crops. He stated that the soybean harvest could be down by more than 50 percent and the corn off by 40 percent. Hot conditions increased evaporation rates and crop stress. Due to increased wildfire risk, a ban on outdoor burning was imposed in a number of counties from Crittenden and Lyon west to the Mississippi River. An upper level ridge of high pressure remained firmly entrenched over the southern states during most of the month.

(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCracken, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD

08/03/10 10:00 CST	1	0	Excessive Heat
08/04/10 20:00 CST		0	

Direct Fatalities: M64PH

Excessively high heat indices were recorded in the late morning and afternoon hours of both the 3rd and 4th. On the 3rd, the heat index peaked at 115 degrees at the Paducah airport, 118 at the Owensboro airport, and 112 degrees at the Fort Campbell airfield near Hopkinsville. Heat indices only fell to between 85 and 90 degrees at sunrise. On the 4th, heat indices peaked at 114 at Paducah, 119 at Owensboro, and 114 near Hopkinsville. Actual air temperatures reached 104 degrees at Paducah and 103 at Owensboro. In Graves County, a 64-year-old man collapsed in his home from heat-related stress after doing yard work. The man suffered from pre-existing medical conditions, but the cumulative effect of the heat was a primary factor. A large fish kill at a small pond in Ballard County was blamed on the heat. About 200 fish died in the one-acre pond. There were reports that several dogs died because of the heat. A large, strong high in the upper levels of the atmosphere overspread the southern half of the nation.

MARSHALL COUNTY --- 0.5 SSE HARDIN [36.76, -88.30]

08/03/10 15:51 CST	34K	Thunderstorm Wind (EG 61 kt)
08/03/10 15:51 CST	5K	Source: Fire Department/Rescue

Several trees were blown down, completely blocking a side street. A few power poles were snapped. A barn was severely damaged, and at least ten acres of corn were flattened.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
An isolated severe microburst occurred during the extreme heat and humidity late in the afternoon. The storm that produced the microburst formed in an extremely unstable air mass with light winds aloft.				
CHRISTIAN COUNTY --- 0.7 S BLUFF SPG [36.99, -87.32]				
	08/04/10 15:55 CST		0	Hail (0.88 in)
	08/04/10 15:55 CST		0	Source: Trained Spotter
CHRISTIAN COUNTY --- 0.7 S BLUFF SPG [36.99, -87.32]				
	08/04/10 15:55 CST		10K	Thunderstorm Wind (EG 52 kt)
	08/04/10 15:55 CST		0	Source: Trained Spotter
Trees were blown down.				
TRIGG COUNTY --- 0.9 SE LAUREL FURNACE [36.69, -87.97]				
	08/04/10 16:35 CST		20K	Thunderstorm Wind (EG 52 kt)
	08/04/10 16:35 CST		0	Source: Park/Forest Service
Tree limbs were blown down, damaging a vehicle. Small trees were down, and larger trees were damaged. The wind damage occurred in the Land Between The Lakes National Recreation Area near the Tennessee state line.				
CALDWELL COUNTY --- 4.0 SE PRINCETON [37.08, -87.82]				
	08/04/10 16:38 CST		10K	Thunderstorm Wind (EG 61 kt)
	08/04/10 16:38 CST		0	Source: Newspaper
A microburst demolished a wood barn.				
Isolated thunderstorms pulsed up to severe levels. The storms occurred in a hot and very unstable air mass ahead of a weak cold front that extended from central Indiana to southeast Missouri. Winds aloft were very weak due to an upper level high.				
(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCrackEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD				
	08/09/10 10:00 CST		0	Excessive Heat
	08/15/10 20:00 CST	49	0	
A strong and very persistent high in the upper levels of the atmosphere was responsible for seven consecutive days of heat indices at or above 105 degrees. The high was centered over the Lower Ohio Valley for the first few days of the heat wave, then it shifted slightly southward and weakened. The summer as a whole was among the hottest on record. The heat index peaked mostly between 105 and 110 degrees at airport sites during each afternoon of the event. Heat indices during the early morning hours were mostly in the mid to upper 80's. There were at least 13 heat-related illnesses treated by hospitals in the Paducah area. Twenty-nine cases of heat exhaustion were treated in the Owensboro area, and seven cases in the Hopkinsville area.				
TRIGG COUNTY --- 3.3 NNW CADIZ [36.91, -87.84]				
	08/12/10 14:00 CST		2K	Thunderstorm Wind (MG 52 kt)
	08/12/10 14:00 CST		0	Source: COOP Observer
A mobile spotter measured a wind gust of 60 mph on Highway 139 about three miles south of Interstate 24. Numerous tree limbs were down.				
TRIGG COUNTY --- 0.5 WNW CANTON [36.80, -87.96]				
	08/12/10 14:05 CST		20K	Thunderstorm Wind (EG 52 kt)
	08/12/10 14:05 CST		0	Source: Newspaper
A boat dock on Lake Barkley was twisted and blown onto shore. A pontoon boat that had been docked there ended up next to a neighbor's dock. Numerous tree limbs were blown down.				
Isolated microbursts were produced by thunderstorms that formed in a hot and very unstable air mass. The atmosphere was characterized by a weak flow regime resulting from persistent ridging in the mid and upper levels.				
LYON COUNTY --- 1.9 ESE SARATOGA [37.04, -87.97]				
	08/14/10 13:25 CST		50K	Thunderstorm Wind (EG 61 kt)
	08/14/10 13:25 CST		0	Source: Newspaper

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A microburst produced a very small but intense damage path along Eddy Creek near the Caldwell County border. Twisted metal and lumber from a destroyed roof were blown across a roadway. The roof was a pitched tin roof that was added over a flat roof. Metal debris was wrapped around a stop sign. At least one outbuilding was destroyed, and others had roofs missing or damaged. The damage area was less than one-half mile long.				

GRAVES COUNTY --- 4.2 SW HICKORY [36.78, -88.69], 2.7 SW HICKORY [36.79, -88.66]				
	08/14/10 14:04 CST		15K	Thunderstorm Wind (EG 65 kt)
	08/14/10 14:06 CST		0	Source: NWS Storm Survey

A couple of dozen tree limbs were blown down. An aluminum shed was demolished and blown one-third to one-half mile. A trampoline was blown into a roof and over a tree. Moderate shingle damage occurred to a house and barn. The microburst damage area was about one mile long and two miles wide. Peak winds were estimated near 75 mph.

GRAVES COUNTY --- WINGO [36.65, -88.73], WATER VLY [36.57, -88.80]				
	08/14/10 14:30 CST		10K	Thunderstorm Wind (MG 54 kt)
	08/14/10 14:45 CST		0	Source: Public

A wind gust to 62 mph was measured at a mesonet site six miles southwest of Mayfield. Wind gusts were estimated around 60 mph from Wingo to Water Valley. Tree limbs and small trees were blown down.

GRAVES COUNTY --- WINGO [36.65, -88.73]				
	08/14/10 14:40 CST		0	Hail (0.75 in)
	08/14/10 14:40 CST		0	Source: Public

HICKMAN COUNTY --- 3.8 SSE BEELERTON [36.55, -88.84]				
	08/14/10 14:50 CST		10K	Thunderstorm Wind (EG 52 kt)
	08/14/10 14:50 CST		0	Source: Public

Wind gusts were estimated near 60 mph. Tree limbs and small trees were blown down.

FULTON COUNTY --- FULTON [36.52, -88.87]				
	08/14/10 14:54 CST		10K	Thunderstorm Wind (EG 52 kt)
	08/14/10 14:54 CST		0	Source: Public

Wind gusts were estimated near 60 mph. Small trees and tree limbs were blown down.

Microbursts occurred in association with a cluster of thunderstorms that formed in a very hot and unstable air mass. The storms were aided by very weak surface troughing that extended from southeast Missouri across the Lower Ohio Valley.

(KY-Z021) MUHLENBERG				
	08/31/10 13:00 CST		10K	Wildfire
	08/31/10 23:00 CST		0	

A wildfire just off U.S. Highway 62 in the eastern part of the county burned 265 acres. Moderate drought conditions and a dry southwest breeze created favorable conditions for wildfires. An upper level ridge of high pressure remained firmly entrenched over the southern states during most of the month.

MISSOURI, Southeast

CAPE GIRARDEAU COUNTY --- 1.3 SE GULF JCT [37.26, -89.53], 1.4 E GULF JCT [37.27, -89.52], 1.0 SSE CAPE GIRARDEAU [37.29, -89.52], 1.1 S CAPE GIRARDEAU [37.28, -89.53]				
	08/01/10 00:00 CST		0	Flood (due to Heavy Rain)
	08/10/10 09:00 CST		2K	Source: River/Stream Gage

Minor flooding of the Mississippi River persisted from July into early August. Fields and boat ramps along the river were partially submerged.

Persistent wet weather across the Upper Mississippi Valley sent several small crests down the river, keeping the river above flood stage at Cape Girardeau.

(MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID

Storm Data and Unusual Weather Phenomena - August 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	08/01/10 00:00 CST		0	Drought
	08/31/10 23:59 CST		0	

Moderate drought conditions persisted over much of southeast Missouri. After a very dry June, some areas received beneficial rain in July and August. Rainfall for the months of July and August was variable, consisting of isolated to widely scattered showers and thunderstorms. Many locations were one to over three inches below normal for the month of August. Hot conditions increased evaporation rates and crop stress. Unirrigated corn yields were expected to be a total failure in some places. Livestock producers in Ripley and Carter Counties were feeding hay due to pastures that were burned up by not having significant rainfall for six weeks. Livestock water was also becoming a concern for some producers. An upper level ridge of high pressure remained firmly entrenched over the southern states during most of the month.

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID				
	08/03/10 10:00 CST		0	Excessive Heat
	08/04/10 20:00 CST		0	

Excessively high heat indices were recorded in the late morning and afternoon hours of both the 3rd and 4th. On the 3rd, the heat index peaked at 122 degrees at the Poplar Bluff airport and 119 degrees at the Cape Girardeau airport. Heat indices only fell to around 90 degrees at sunrise. On the 4th, heat indices peaked at 119 at Poplar Bluff and 115 at Cape Girardeau. Actual air temperatures reached 100 degrees at Poplar Bluff and 101 at Cape Girardeau. A large, strong high in the upper levels of the atmosphere overspread the southern half of the nation.

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID				
	08/09/10 10:00 CST		0	Excessive Heat
	08/15/10 20:00 CST		0	

A strong and very persistent high in the upper levels of the atmosphere was responsible for seven consecutive days of heat indices at or above 110 degrees. The high was centered over the Lower Ohio Valley for the first few days of the heat wave, then it shifted slightly southward and weakened. The summer as a whole was among the hottest on record. The heat index mainly peaked between 110 and 115 degrees at the Cape Girardeau and Poplar Bluff airports each afternoon, though Poplar Bluff edged above 115 degrees on a couple afternoons. Heat indices during the early morning hours were mostly in the mid to upper 80's. Information concerning heat-related illnesses was not available from hospitals.

PERRY COUNTY --- PERRYVILLE [37.72, -89.87]

08/12/10 12:10 CST	25K	Thunderstorm Wind (EG 52 kt)
08/12/10 12:10 CST	0	Source: Newspaper

Tree limbs and power lines were blown down. A tree limb caused power lines to fall across city-owned vehicles at a city fire station. A downed tree completely blocked a city street. Several trees were damaged on the courthouse lawn. A tree fell across a wire and broke off a pole near the courthouse.

An isolated microburst was produced by a thunderstorm that formed in a hot and very unstable air mass. The atmosphere was characterized by a weak flow regime resulting from persistent ridging in the mid and upper levels.

SCOTT COUNTY --- SIKESTON [36.88, -89.58]

08/14/10 15:35 CST	10K	Thunderstorm Wind (EG 56 kt)
08/14/10 15:35 CST	0	Source: Newspaper

High winds struck the stage of an outdoor music concert just before it was set to begin. The stage roof, which was made of metal trusses and a tarp-type material, was blown down. Support beams damaged the stage. Nobody was injured.

A microburst occurred in association with a cluster of thunderstorms that formed in a very hot and unstable air mass. The storms were aided by very weak surface troughing that extended from southeast Missouri across the Lower Ohio Valley.

CAPE GIRARDEAU COUNTY --- 1.5 ESE GULF JCT [37.26, -89.52], 0.8 SE CAPE GIRARDEAU [37.29, -89.52], 1.0 S CAPE GIRARDEAU [37.29, -89.53], 1.1 ESE GULF JCT [37.27, -89.53]

08/17/10 09:00 CST	0	Flood (due to Heavy Rain)
08/25/10 14:00 CST	1K	Source: River/Stream Gage

Minor flooding occurred along the Mississippi River. Fields and boat ramps along the river were partially submerged.

A couple more minor flood crests associated with persistent heavy rain in the upper portions of the river basin moved down the Mississippi River.